

Project Study Report – Project Development Support (PSR-PDS) Process and Preparation Procedures – Part Three

California Department of Transportation

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PSR-PDS
Preparation
Process

2	Concept and Scope, Design Criteria, Identify Deficiencies and Lead Agency
3	Authorization for PID Preparation
4	Obtain and Review Existing Reports, Studies, Mapping or Other Information
5	•Form the Project Development Team
6	•Develop Consensus on the Project Purpose and Need
7	•Review of the Project Site in the Field
8	•Identify Additional Data Requirements for Project Scoping
9	Perform the Initial Engineering Analysis and Develop Alternatives
10	Develop Cost Estimates
11	• Develop Schedules
12	•Risks
13	Quality Management Plan
14	Complete PSR-PDS
15	Caltrans District Review and Approval

• Work Programs for PSR-PDS Development

• Pre-PID Meeting



Overview

- Perform the Initial Engineering Analysis and Develop Alternatives
 - Traffic Engineering Performance Assessment
 - Stormwater Documentation
 - Right of Way Conceptual Cost Estimate
 - Local and Regional Input
 - Transportation Planning Scoping Information Sheet

PSR-PDS Guidance Training

Presented By:
HQ Division of Traffic Operations
Jerry Champa, HQ Traffic Operations Liaison Engineer



OVERVIEW

PURPOSE:

- 1. Feeds preliminary scope of (construction) work
- 2. Establishes scope & magnitude of Traffic Study



OVERVIEW

- "Assessment" relies upon an evaluation of:
 - Existing Highway Corridor
 - Preliminary (base) Improvement Plans
 - Readily Available Traffic and Performance Data, including:
 - —Traffic Volumes & Forecasts
 - —Collision Data and "Reports"
 - —Congestion Data
 - —Peak and Off-Peak Periods



OVERVIEW

Preliminary Outcomes/Findings

- Estimate of system performance benefits & impacts
- Identify cause / source of performance deficiencies
- Identify critical traffic elements, systems & strategies for inclusion in preliminary scope of work
- Identify Operations-based alternative?
- Identify the specific traffic studies needed during Project Approval phase



OVERVIEW

- Article 5 (Scoping Tool)
 - Identifies Functional Units
 - Checklists Can Guide Effort



- What?
- Why?
- Who?
- How?

NOTE: Answers are provided in the updated "guidance"



WHAT?

- See Appendix S Article 5
- An engineering ASSESSMENT leading to:
 - Traffic analysis and formal Traffic Study
- Focus on PERFORMANCE (prior + predicted)
 - Operational & Safety

NOTE: Assessment = Preliminary Estimate

(PSR-PDS does not "lock-in" scope, capital cost, etc.)

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Traffic Engineering Performance Assessment

- WHY? (See Appendix S Article 5)
 - Identifies and/or provides information re:
 - Performance Deficiencies (existing) & Causes
 - Infrastructure Omissions
 - Possible Alternatives and Ability to Meet Purpose & Need
 - Complete Scope of Work
 - Especially traffic elements / systems
 - Other features that directly affect performance
 - Major Engineering Decisions
 - Potential Impact of non-standard features
 - Estimate of the Scope and Magnitude of the formal Traffic Engineering Study during Project Approval Phase (PA&ED)



KEYPOINTS:

- 1. A complete Traffic Study has 2 components:
 - → Operational (mobility) <u>and</u> Safety
- 2. Why perform comprehensive study?
 - → Because every project is an opportunity & threat to system performance
 - → "Lessons Learned" from previous projects inform us that (incomplete) scope can create new performance problems.

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Traffic Engineering Performance Assessment

- Who? (See Appendix S Article 5)
 - —From Division of Traffic Operations:
 - Functional Managers
 - Highway / Freeway Operations
 - Safety Investigations / Management
 - Electrical / Intelligent Transportation Systems
 - District Traffic Manager
 - Traffic Engineering / Operations Specialists
 - Truck Services Coordinator
 - Safety Systems Coordinator
 - Analysts



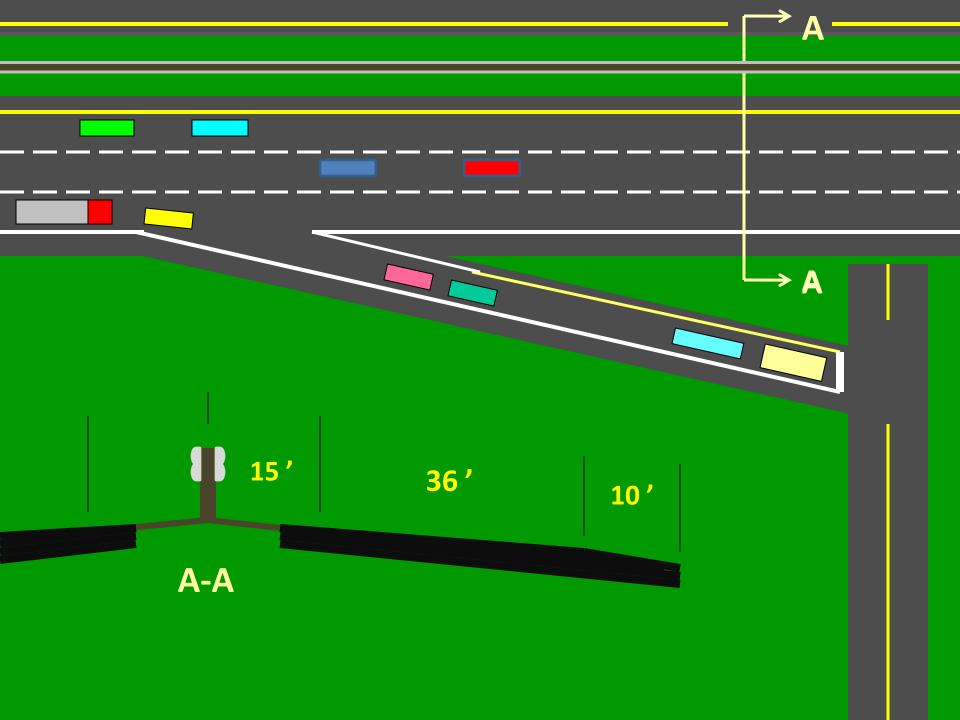
- HOW? (See Appendix S Article 5)
- Consultation with / among:
 - Traffic Operations Functional Managers
 - Specialists

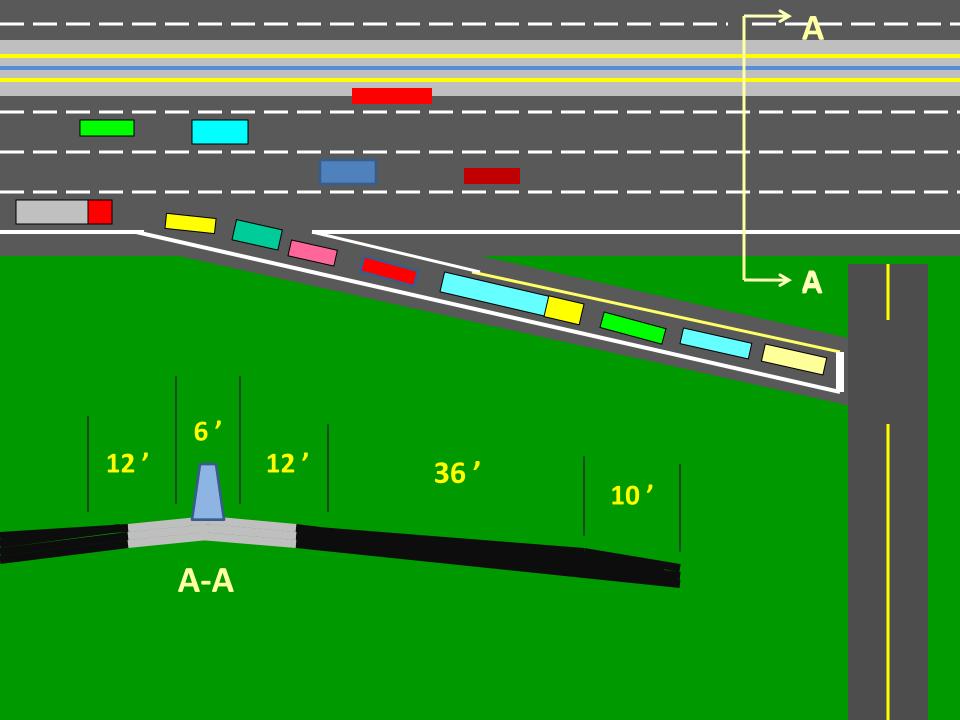
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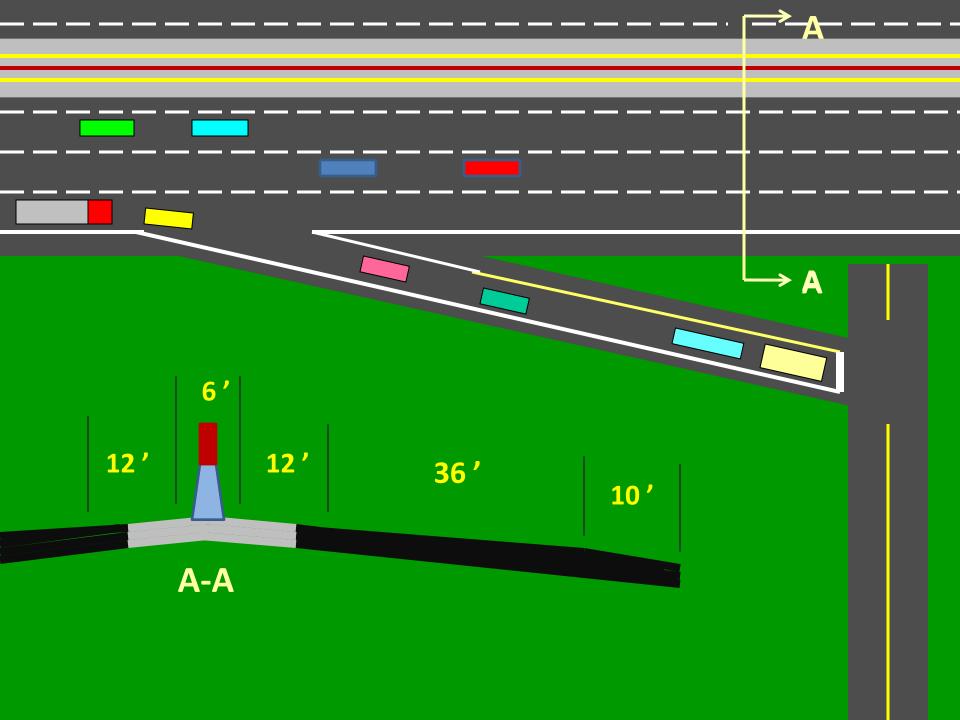
- 1. The proposal
- 2. Performance Impacts & Benefits
- 3. How to Mitigate Impacts
- 4. What requires (traffic engineering) analysis (during early part of PA&ED phase)



EXAMPLE









PRIMARY PURPOSE:

- 1. To Establish Preliminary Scope of Work
- 2. To Establish Scope & Magnitude of Traffic Study



Questions

